Terrence S. Kaufman

Research done since receipt of PhD degree, September 1963:

- I Mayan family
- 1. Paper: The Position of Tzeltal-Tzotzil in Mayan (Aug 1965; ms).

 Essentially a new classification of the Mayan family based on
 a fairly completely elaborated theory of historical Mayan
 phonology and using much more lexical and grammatical information
 tion than any previous attempt at classifying the Mayan languages.
 - 2. Work on comparative Mayan phonology (intermittently since Sept 1963 to the present). Based on about 1000 etymologies, which has succeeded in discovering all the regular sound correspondences and in reconstructing the structural features of proto Mayan phonology; certain features of the reconstruction could be placed onea more solid footing only with the use of considerably amplified data (which is not at present available).
 - 3. Paper: Evidence for the Macro-Mayan Hypothesis (Nov 1964; ms). This paper examines the thesis that the Mayan, Mixe-Zoque, and Totonacan families form a (non-exclusive) genetic group, examining all the lexical and phonological similarities so far uncovered, and coming up with the conclusion that the hypothesis is probably sound, but inherently incapable of very detailed proof.
 - 4. Mayan Etymological Dictionary Project (in progress). This project aims to compare standard lexical lists (with grammatical notes) of over 1400 items in all the Mayan languages in order to establish a basic core of Mayan etymologies. The work involves getting questionnaires filled out (9 out of 25 are done), punching cards with lexical items, and collating cognates. This will probably be a two or three year project, and has just

begun.

II Mixe-Zoque family

- 1. A comparative phonology, grammar, and dictionary of the Mixe-Zoque family was prepared in draft form in the first half of 1963. During the first half of 1965 the monograph entitled <u>Mixe-Zoque Diachronic Studies</u> has been revised in the text and the etymological dictionary expanded by about one-fourth.
- 2. "Reconstitution" of Tapachultec (March April 1965).

 Tapachultec is quite possibly extinct, and is attested in only
 5 short and not very accurate word lists; but the application
 of philological methods to these lists, along with a knowledge
 of other languages in the family, allows one to salvage and
 interpret most of the extant material.

III Siouan family

- 1. Siouan etymological file (winter 1963-64); ca. 500 entries. This file incorporates all of Wolff's and Matthews' etymologies (250-300 in all) plus 200-250 new etymologies discovered by me. There are 13 Siouan languages.
- 2. Catawba lexical file (winter 1964). A slip file of every bit of published material on Catawba, including Speck's Catawba Texts. A lot of unpublished material on Catawba exists, so that this file is by no means complete.
- 3. Mandan lexical file (winter 1964). Includes all published (probably also extant) material on Mandan, which is quite amenable to the application of philological methods.
- 4. Reconstruction of proto Siouan phonology (winter-spring 1964).

 Although 2 formulations of comparative Siouan phonology are

- in existence, both are subject to much improvement, which my studies have made.
- (5. Dakota materials gathered during the course of 1964-65, while teaching 220.)

IV Uto-Aztecan

- 1. Uto-Aztecan etymological file (fall-winter 1964-65); ca. 500 items. Includes all the etymologies in Miller's unpublished study and in the Voegelins', Haless, and Whorf's published studies, plus a small number of etymologies discovered by myself.
- 2. Modifications of Uto-Aztecan comparative phonology (winter 1965). Some improvements and amplifications over Voegelins Hale and Whorf have been made.
- 3. Cora-Huichol etymological file (winter 1965). An etymological vocabulary of the Coran subgroup (ca 200 sets).
- 4. Plateau etymological file (winter 1965). An etymological vocabulary of the Plateau subgoup (ca 250 sets).
- 5. Plateau comparative phonology (spring 1965). A detailed study of the comparative phonology of the Plateau group shows that a certain amount of simplification can be made in the Voegelins' and Hale's formulation.
- 6. Tarahumara morphophonemics (spring 1965).

V Other families.

1. Lencan linguistic materials (spring 1965). The two lencan languages are almost extinct but considerable data (up to 1910) exists on them. All extant data has been slipped and filed; philological methods are being applied to determine the phonological systems of the languages and to provided normalized

transcriptions of the morphemes and lexical items (ca 800-900 reconstitutions).

- 2. Matagalpa linguistic materials (fall 1963). Most of the data on the two varieties of this nearly-extinct language have been slipped, colleted, and interpreted; the job is almost but not quite complete (ca 300 reconstitutions).
- 3. Xincan linguistic materials (spring 1965). Slipping and filing of all extant data on the two almost extinct Xincan languages has been begun.
- (4. Tumbuka (Bantu) materials gathered during spring of 1964 while teaching a field methods course at Chio State University.)

VI Field Work

- 1. Tzotzil syntax; one week in June 1965.
- 2. 5 Zapotec 100 word lists 3 days in June 1965
 3. 1 Chinantec 100 word lists

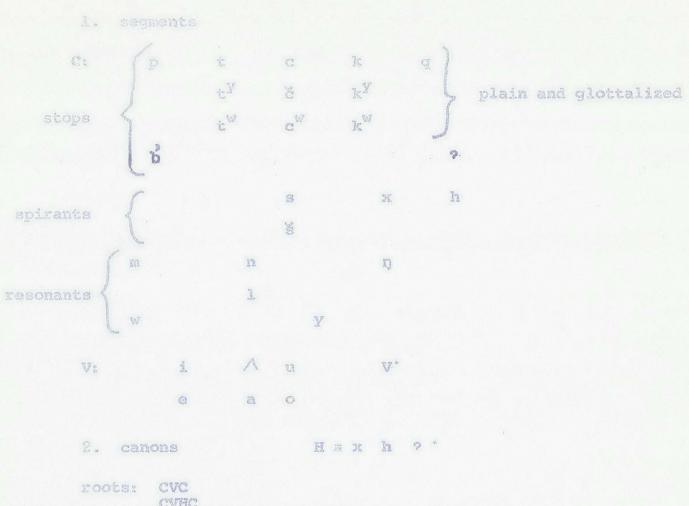
Committee Work Done in Linguistics Department, University of California, Berkeley

- 1. Library Committee (1964-65)
- 2. Undergraduate Advisor (1965-66)
- 3. Scheduling Courses (1965-66)

Evidence for the Macro-Mayan Hypothesis

T. Kaufman

Handout to accompany paper



CVEVEC CVCVEC CVCVEC 2a initial clusters

7 + resonant

4 alternations

togak

Ro-d

3800 37

12-9

c-ċ

p s m n i e a o u remain unchanged in all languages.

All k's become c in Hua, otherwise k remains in all languages.

1 becomes r in Lac and Chr, otherwise l remains in all languages.

		l g		4.3	t.W	C	Ž	e ^W	35	KX	Je W	Z	2
Bua	Parties of the Partie		2,8	t,č	t,&	43	č	9		Ċ	SALES AND	K	2,8
	1 3	ģ	t,č		t,č	c,č	č	9	k	k,č	36	k	2
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Tso	3	þ				G.	E	C	Jr.		č	k	?
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Chj		3		t.	Ĭč.	Carlo	Ž	C	No. of Concession, Name of	6/R		l le	2
Jac	ľ	Š		Ė.	lě	0			K	k,č,c) X	?
		5	4	C	18	and the same				, r ^y ž		q	7,0
Cak		Š	Ŷ.	3		G	ě	c		18	1	q	?
Pch		9	ę.	XC.	k,č	C	ř	G		k		q	2
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Chj Jac		h,?	h, e.	D	South and a second seco	X	2	W	W	Andrew Property Commencer		Principal and the second	The second secon
Man	8	44	n 2,80.	n	Y	Y	a	W	S.	na de la constitución de la cons		participation and the	
Cak	S. ya				along.		8	307		discontinues and the second		eur indicate a me	epite (constant and constant an
Pch	š		v,y h,R	x	Total Section	Y	a	W	W	met (was sed in se		TA CALCULATION OF THE PARTY OF	
1,415		A STATE OF THE STA	11,0	26	And the second s	у.	88	W	2	ATT OF THE PROPERTY OF THE PRO		en dan una de la composition della composition d	10,000 (10,000)
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					TO THE PARTY OF TH	ed line a selective	A real factors		The section				And the second s

	*cvc	CV°C	CVPC	CVhC	CVXC
Hua	CVC	cv.c	CA.C	cv.c	?
Lac	cvc	cive	cvive	civic	cvvc
Chl	CVC	CVC	CVC	cvhc	CVhC
Tzo	CÝC	cve	cýc	cvc	cvc
Toj	CVC	CVC	CV?VC	CVC	CVhVC
Chj	CVC	eve	CV?VC	CVC	CVXVC
Jac	cvc	CVC	CVC	cvc	cvhvc
Mam	CVC	CA.C	CV2C	CV.C	CVxC?
Cak	CVC	CV'C	CA.C	cv · c	CVxC
Poh	CVC	CA, C	cv.c	CVhC	CVxC

proto Mixe-Zoque phonemes

1. segments

C: ptcck?

s

m n

Y W

V: i A u

e a o

2. canons H e ? '

roots CVC

CVHC

CV(H)CV(C)

cvhcv(c)

cvscv(c)

proto Totonacan phonemes

1. segments

C: p t % c č k c

m n

1

v: i u v· ·

a

2. alternations

X~c~č (k)½~s~š (k)k~q (k)

GVC correspondences

to ADVISE	Ma		To	
to ASK FOR/WART	Min		To	
BIRD	Mn		To	
BLACK/RED	Man		To	
BOME	Mn	MZ		
ELDER EROTHER	Pin	MZ		
BUZZARD	Mn		ro-	
BIG CAT	Mn	192		
CLAW/WAIL	Mn	MZ		
COATI	Mn		To	
to COME (1)		MZ	To	
to COMB (2)	Mn		To	
to CURE	Min	MZ		
to DANCE	Mn	MZ		
DEAF	Min	MZ	To	
FDOG	Min	MZ	(To)	
to DRINK	2111	MZ		
DRY	Min	MZ		
sto EAT/BITE/ GRIND/SWALLOW	Min	MZ	To	
to EAT	Baxa	MZ		
PEACHER		MZ	To	
to FINISH	Min	MZ		
FIRE	Min		To	
FISH	Mrn		To	+ Muave
to FRY	Min		To	
GNAT/FLY	Ma	MZ		
to GO	Mra		To	
to GO and RETURN	Mn	144		
to GRAB	Ma	MZ		
to GRIND	Mn	MZ		
to GRIND/SHELL (CORN)	Mn		To	
MAIR	Mn	MZ	To	
to HEAR		MZ	To	
BURT/INJURY	Mn		To	
LIFE/ANIMAL/ BREAST	Mn		To	

LIME/ASHES		NZ	To	
to LOOK FOR	Min	MZ		
LIME (Cal)	Min		To	
MAN/RYE	Min	MZ		
MANGE	Min		To	
MONKEY	Min		To	
NECK	Min	MZ		
NEST	Mra		To	
NOSE		MZ	To	
OME		MZ	To	
*PLANK/BED	Mn	MZ	To	
to PILE UP	Mn		To	
to PASS	Min	MZ		
*to REST	Mra	MZ	To	
to RIP		MZ	To	
ROUND	Mx	MZ		
*to SAY	Mri	MZ	To	
*to SEE	Mn	MZ	To	
SEED		MZ	To	
to SHAVE	Mn	MZ		
SIBLING	1913	70		
*SMALL	Ma	MZ	To	(symb?)
SNAIL		MZ	To	
SNAKE	Min	MZ		
to SOW	Mn		To	
SPIDER	Min	MZ		
SQUIRREL	Man	MZ		
STINGY	Mn	MZ		
*(GRIND) STONE	Mn	MZ	To	+ Huave
SWEET POTATO		MZ	To	
to TIE		342;	To	
*TOBACCO	Min	MZ	(To)	
TOOTH		102	To	
TREE		MZ	To	
*VINE/CORD	Mn	MZ	To	
WHITE	Mn		To	

GVC+ correspondences

to BEGIN		MZ	To	CVC(V)
BELLY	Mn	MZ		CVG(V)
CANE	Mn	MZ		cve Lvc
FAR	Mn		To + Huave	ove [(v) c
KNEE		MZ	To + Huave	ovov
PIG	Mn	MZ		CVCVC
SALT	Mn		To	CVCVC
STAR		MZ	To	CVCV
to STEAL	Mn		To	CVCVC

CV correspondences

	COLD	Min		To
N	to FIND	Mra	MZ	To
	FIRST	Mn	MZ	
	to GO UP		MZ	To
	to GRASP	Mn		To
	Mosquito	Mn		To
转	SOUR/BITTER	Mn	MZ	To
	SIDE	Mn	MZ	
	to SLEEP/DREAM/		MZ	To
	LIE DOWN			
	to TWIST		MZ	To
	FLY	Mn	MZ	
	to GO DOWN	Mm	MZ	
200	to EAT/TORTILLA	Ma	MZ	To
45	WHITE/MOON	Mn	MZ	To

CV[C correspond nees

45	to BREAK/POUND/ HIT/CRUSH	Ma	MZ	То	(symb?)
43	to BUY/SELL/ GIVE	Mn	MZ	To	
	to CARRY	Mn		To	
	to EXTINGUISH	Mn	MZ		
	HAND	Mil.	MZ		Solven of the combination
	HARD		MZ	То	
44	to LAUGH	Mn	MZ	To	(symb?)
	Pot	Mn	MZ		
	to RIPEN	Mn	MZ		
茶	SAND/DUST	Mn	MZ	To	(symb?)
	SICK/PAINFUL	Mn	MZ		
	SKUNK	Mn	MZ		
	SMEET/HONEY	Mn	MZ		
	to EWELL	Mn	MZ		(symb?)
	THREE		MZ	To	
	UPRIGHT/STANDING	Mn	MZ		
di.	to Wash	Mn	MZ	To	
	ELBOW	Mn	MZ		
	to DIE	Mn	MZ		

- SE-	60	BARK	Mn	MZ	To		cv(c)
	to	BELCH	Mn		To		cv[c
桥	BE)	LLY/INTESTINE LUNG	Ma	MZ	To		cv[c
	to	BLOW		MZ	To		cv[c
	TO	BURN/SHINE	Mn	MZ			GVG
4/7	to	COUGH	Mn	MZ	To	+ Iluave	GVGV
舒	to	DRIP	Mn	MZ	To	+ Huave	CVC
黎	E	KCREMINT	Mn	MZ	To		CV(C)
	PUS	3	Mn	MZ			cv[c
	to	SHOOT	MI	MZ			CVC
	to	SNEEZE	Mn	MZ			CVCVC
	ome	211	Mn	MZ			CVG
67.75 67.75	to	SPIT	Mr	MZ	To		GVG
	to	STRANGLE	Mn	MZ			CVC
*	to	SUCK/NURSE/ KISS	Mi	MZ	To		cv[c, cvc
	to	TICKLE	Ma	MZ			GVCVC
	to	URINATE	Mn		To	+ Huave	CVC
	to	WHISTLE	Mn	MZ			gv[c

items possibly diffused

	ALLIGATOR	M	MZ	To	4 Tarascan	aveav
	ATOLE	Mil	MZ			CVC
	ZAPOTE/PLANTAIN	Mra		To		CVCVC
	CHILD	Min	MZ			CVCV
36	DEER	Mri	MZ	To		GVCV
	DRAGONFLY	Mn		To		CVCVC
拼	FATHER	Min	MZ	To	+ Huave	CVC
	FOX (1)	Mn	MZ			CVC
	Fox (2)	Mn	MZ			CVC
	HONEYCOMB	Mn	MZ			GVGVG
46	INCENSE	Mn	MZ	To	+ Huave	CVC
	PARRAKEET	Mn	MZ		+ Huave	CVC
	MABBIT		MZ	To	+ Huave	CVC
450	R. T/MOUSE	Mil	MZ	To	+ Huave	as [a
	YVEVTY		MZ	To		C(V)C
	AVOCADO	Mxa	MZ			CVC

Uto-Aztecan Family

A. Plateau Group la Mono (Monos, Owens Valley Paintes) b Northern Painte (Northern Paintes, Bannocks) 2a Panamint b Shoshone (Shoshones, Gosiutes) c Comanche 3a Kawaiisu b Ute (Utes, Chemehuevis) Southern Painte Tubatulabal Southern California Group la Luiseño (Luiseños, Juaneños) b Gabrielino (Gabrielinos, Fernandinos) [extinct ?] Za Cahuilla b Cupeño 3 Servano Hopi D. Piman Group Property In la Papago (Papagos, Pimas) 6 Tepecano 2a Northern Tepehuán b Southern Tepehuán

F. Yaguian Group

la Tarahumara

b Varohío

Za Cáhita (Yaguis, Mayos)

b Ópata [extinct?]

G. Coran Group

1. Cora

2. Huichol

H. Aztecan Group

1. Aztec (Nahuas, Pipiles)

2. Pochuteco [extinct?]

phonemic systems

P. Contraction

Mono

p t c k kw f

s x h

m n

y w

CV

CVCV

CVC2C2V (= Lamb CVhCV)

Comanche

p t c k kw ?

W W W

S desired to

m n

CV

CVCV

CV.CV

CVhCV

* 1

e a o

k and g, k" and g" are mostly

very few words end in a consonant

X, -ww-, -yy- are rare

11 hw 11 = /380/ 11 hy 11 = /tt/

i A u V.

e a o

Few or no words and in a consonant -hw-,-hy- are rape or non-occurring Southern Parute

no word ends in a consonant

inau

CV
CV, } contrast not sure
CV, V, }
CVCV

C, VnC2V where Cz = |ptckkw|

Tubatulabal

m n w e y

CV

C A C (A)

C,V"Cz(V) where Cz = p/b t/d c/z k/g h w

i A U V°

e is vare

E, & are rare

e is rare initially

```
LUISERO
                                 kw
                                                    Petitiv +
               Var.
                     Party.
                           9
 U
               X
        S
                                 KW
                                                    0
 000
         1
               Y
                                  W
                                              V & & x xw are initially
        3
M
                     0
                                              e o are rare or non-occurrent
                                              in unstressed syllables
 CV (?)
 CVC(V)
 CV·C(V)
 Cahuilla
        1
               X
                      K
                                   8w
                                                       i
                             8
                                                                  u
                                   Xw
        5
                             ×
                                                       2
V
                                                             a
               n
        49
                      9
m
               Y
        Popular .
                                   W
                                                   occurs in loans fram Spanish
                                                 r is rare
```

v x. & xw are vare initially

CVC(V)

```
Serrano
    t -t & k g kw ?
                                i A - UL
                                      a a
s s š x h<sup>w</sup> h
 n ñ ŋ
m
                       W
                            e o f g occur in loans fram
CN(3)
                            Spanish
                            V & x are rare initially
CV.
                           rflsshw are rare
CVC(V) CVCV.
CV.C(V) CV.CV.
Hopi
ptck g
                                i
                     kw
- V r
                                  0
                     W
        S
                         San Comment
                               e a
                     nw
           by
                 7
    n
m
                               V. V: V
CV
                         Sew words end in a consonant
                         11V:11 = V: ~V.
CV:
                        11 - V~V·~ 0
```

CVCV

CVICV

Papago

pt & k P i A u

b d -d & g i A o

s & h

m n ñ V° V

v e

exapt in word final position,

CV (?)

E & e & s ñ occur before Vh

CV (?)

E & l s & occur before Vh

CVC(V)

CVC(V)

Northern Tepehuán

ptk-7
i A u

b d g
a o

s s s h

m n ñ

v r

Sew or no words end in a consonant

CV CVCV (others?) Tarahumara

s

Com. W

CVCV

t & k P

no word ends in a consonant

u

i and e are neutralized in unstressed position

Cáhita

bw K k w m

i u a

CYPY CV: PV CVCV CV.CV

Sew words end in a consonant

Cora

[canons not worked out]

Sewer no words end in a consumant

U

Huichol

m n V + pitch and stress phenomena

Ecanons not worked out]

Few or no words end in a consonant

Aztec

p t (3) ¢ č k kw h=?
-e s š 7 _-

m. n.

i o V.

e a

only n, k, and ? are frequent finally

CV.

CVC(V)

 $CV \cdot C(V)$

CVCV.

CV.CV.

some dialects lack & having t in its

h = ? ('saltillo') is [?] in same
dialects, [h] in others. those with [h]
have usually shifted some allophones of /w/
to [h] as well.

proto phonemes

consonants

vowels

$$\begin{bmatrix} i & u \\ e & o \end{bmatrix} \text{ or } \begin{cases} i & A & u \\ a & o \end{cases}$$

patterns

roots

C,V

CV

C, VC2V

CIVCZV

CIV"CZV

where C2 = oral stop/affricate

affixes (?)

C

CV

morphophonemics

alternations

CVCVNCVncV

CVCVNCVCV

11t1 -i/c

- / t

SNC (conditions unclear)

stem-final morphophonemic

vowels

Vn

VX

Vo

code for environments noted in sound correspondence charts

```
conditioning is grammatical
        by sound symbolism
         conditions not yet worker out
         before a high rowel (1i, *e, *u)
         before a front vowel (*i, *e)
         before * i
         before * e
0
       ) (initial) before a low vowel (*a, *o)
         (medial) between low vonels
          before *a
          before 40
0
          before a consonant
          unstressed
          in monosyllables
           after k
k
          after 4
4
```

14 Initial consonants

4		The second	*V	光七	*c	* 5	# R	*kw
Mon	Ala	Constant of the Constant of th	and the contract of the contra	The second secon	C C	To the state of th	239	Kw. Ewy
Com	AZC	State State of the	Man haging			C &	R	Service and the service and th
SP	АЗС	Section 2010	Les establishes de la contraction de la contract	And the second s	C	()	A Section of the sect	and the property of the second
Tub		e programme de la companya de la com	Confidence and confid	The state of the s	and	Commence describe	R; N	d total demonstrative forces and the second
and the state of	Cla	Contract Con	Constitution of the consti		Z.	5 5	R; 9	S. S
Cah	CZa	P	Santa Santa and Santa Sa	and the second s	E S	C)	2. 30 A	8
Ser	C 3	Contrata Contrata	here typically a pro-		Contraction of the second	\$/h #	kig ne kw	anneallacture and property of the state of t
	D	gently, so the state of the sta	and an object to the object of	And the second s	The second secon	C)	k; g*	anticement at the control of the con
Pap	E la		The continuous and consequent	t; E^	5:5	Annual for additional and annual a		ental pare instants and super
NT	EZb	V		and the second	5/5 +		No.	
tar	Fla	P/b 8	P/5 3	t/x 8		ana-rustus de de la companya de la c	k/g 8	ω
Cáh	FZa		V: V	And the second control of the second control	Z.	term and extra department and the second sec		Panin
Cor	6-1	PjpWa	h;p9	orteriories contention and contentio	and a financial second	5	k; &	kw, xw
	62	1		1	ė.	100	enter de la constante de la co	institutivitani paragamenta
Azt	estation entered efficiency attachments to extend of the entered o	Control of	8,58	t and	4,8	4-7	tester structure construction construction	kw .

Initial consonants

Mon Ph m n n w	Section of the sectio
	The state of the s
Com Ph m n n w	à
SP Q M n n n m w; & "	4
Tub PPM n g w	A CO
Ser Ph'mnnjw	China Charachea
Hop Phmnnnw; eu	ing the beautiful distribution of the second
Pap ? P m n;ñ^ n;ñ^ g d;	· Casalan
NT R R M N N N g d	disease
	S Section of the sect
Cáh Phmnnwy	NOTHER PROPERTY AND ADMINISTRATION OF SHARE
Cor Q Q m;mwa n n w;he;ve y	direct in part of the spirit recommendate to
Hui PPmnnw;h° y	Garrela esteren escherentimente beso
Azt a a m n n w; a° y	si biggi Pejoranga Najdirina disengap gaga

mediah consonants

	*5	*\	*t	ЖC	*s		*kw
Mon	PP	and part for part of the state	t/tt 9	e/cc/h 8	ss/cc/h 8	8/883* k/kk3	8"/86" 9 k"/kk" 9
Com	p/hp 9		r/t/ht9	e/hc/03 8	. s/h 8	k/hk9	kw/hkmg
SP		V	r/t 9	c/& ⁹	s/& 8	8/k 8	gw/kw 3
Tub	p/b 3	p/b 8	l	d	Š	k/g";h"	Section of the sectio
the LL	n.Hocicaus	V		š;s ^s	š;s s	k;×*	
Cah	P	V	e/2 +	S	S	k;x*	3
Ser	P	V		s/h +	s/h #	k; 84; x4	k w
Hop	P	V		C	S	k; g +	W W
Pap	included the	V	も;そか	š;5 [^]	h/a +	······································	etit englustetin petitys
N.T	P	V		5/3 7		K	5
Ta re	p/b 9	P/6°	1/4 6	Z.	S	k/g 9	re-commence of the second
Cáh		V	es constitution of the con	en material de la constante de	S	R	P _w
Cor	Con-page of the control of the contr	Page positive.		Construction descriptions	Š	k; č 👇	kw; xw*
and price of the state of the s	and the second desirement of the second desire	Q	Specific Spe	· C	Š	No.	W W
A2t	and the state of t	C.	t; と (i)	the same of the sa	5; 3	en e	enables

after te, *c merges with ty in groups B, C, D

medial consonants

	*7	Autor produces	*C	×r	χw	*4	*m	#y w
Mon	Section of the sectio	gentlem actions are a constraint fractional trades (the spread (s	S / W	Committee of the commit	1 w/88"		6 Y -	Par a
Com	8	Constanting Consta	n/nn ⁹	Section of the sectio	w/20 8	1	m/hm 3	The second secon
SP	0	8	8/n 3	gray dil	Section of the sectio	4/29	8/m 3	Tarbellandes de majante successi de la companya de
Tub	Contrado.	And the forest forest to the f	And the second s	Contraction of the contraction o	Commission (Commission Commission	and the second		nw man
Lui	direction of the state of the s	en estaturat francisco estatura estatur	entre control description of the control of the con	The second secon		V	Manager and the second	9
Cah		amening and a second a second and a second and a second and a second and a second a	grandin Salam Manufactura (America)	The state of the s	W	70	M	W
Ser	de mange.	audinia audaniana audaniana	See a	a design of	w/8.7	y/&=	m	
Hop	A particular de la constante d	h/Qt	n	gen-s	w; ev	Vandament of the second	de la companya de la La companya de la companya de	The contract of the contract o
Pap	Condition (p. 154 or), and management of the condition	K.	dil	d; er		d ; X	m	
N	8	Provide the second state of the second state o	den styrite international promotes and security manifestation of the security	Service .	9	Parameter and the second	W	2
Tar	Paters	Orichaste observati i Consociano) o proprio Consociano (consociano		Emercal (4	m	w
Cáh	Samuel Section (Section)	Separate Sep	l;rs	S. S	W	4		w
Cor	San	S.	- A	in the distribution of the	w;v*		m; mw a	Anna in the second
· ·	S.	Contraction of the second	Commission and a second and a s	the same and the s	w	4	m	W
Azt	8	R	The second secon	2	and the transport of the second	4,36	m	?··

medial nasals and nasal clusters

						V 1	. 1 1 113
	*n	Xn	*inP	*nt	*nc	*yk	*ykw
Mon	n/nn3	m/nn/mm3	Don.	Appendix of the second	S	kkj86 t	kk";88"
Com	n/hn9	n/hn 9	er cereman's part thousands or			k	· SC
SP	R/n 9	8/08	The second secon	of the states		pk	DK W
Tub		9	mb/mp	nd/nt	NZ.	ງ9/ŋk ⁸ ;ŋh	
Lui	and the second s	ŋ		and the state of t	Č	k;9.4	
Cah	n所丰	5	P	And the second s	t	k;84	
Ser	n/ñ‡	ŋ	p/hp+	Application of the state of the	, 8	k; 9	
+00	e de la constitución de la const	9 ^y 39 4	P	?	5	k; 8	~
Pap	n;ñ T	n;nx个。			h/xx [‡]		2.
NT	a disease	Appendix of the control of the contr	P	7		K	
Tar	entranting State (State)	And the second s	Supplement of the state of the	and the property of the second	S	R	
Cáh	de de la companya del companya de la companya del companya de la companya del companya de la companya de la companya de la companya del companya de la companya della companya de la companya de la companya della compa	g generalise de la companya de la c	A STATE OF THE STA	The second secon	S	erection of the property of th	
Cor	entreplate out of the control of the	e de de la constante de la con	Super-	demand consistent of the section of	W. S.	energy State of the State of th	Repairment the telegraphic control of the control o
Hui	prise - These	Augustina and Conference transporters	Pales	orthonores referential control of the control of th	A Company of the Comp	*Allenders	
Azt	Allensia Allensia Maria (Maria Maria	oldon.	Contract of the Contract of th	The second secon	CA.	Service and the service and th	
	made and		distance of the second	The state of the s	mag (see a	Bulletin	Towns (

vowels and length

	* 1	#e	¥W	*0	*a	* V	* 7
Mon	il significant	A.	trajasi organiza	O.	ale+	William Commence	
Com	and the second s		analy and a second	0	ale +	V	~
SP	e and the second of the second	^	emos de la companya d	0	C.	V; V m	Ÿ;⊽m
Tub	de constitution of the con	^	N	0	a		?
Lors W. C	de manager	o;u"	X	e; i v	a	V	7
Cah	e autorio)	e	and the second	i	a	V	V
Ser	g early d	八 5日 ^{大計}	w.	-8	a/a+	V	
Hopo			K	0	ale t	V	Ÿ
Pap			read of	0	a	?	-
NT	e e e e e e e e e e e e e e e e e e e		***************************************	O	a	?	and the second s
Tar	i	e; i	V	0	a	V	D. Constitute annual an
Cáh	o oma	God and a second	-	6	a;e 8	マッマアバ	V; VPV m
Con	ile +	e/at	Λ	and the second s	C.	end of the second of the secon	and the second s
	a sand		A contraction of the contraction	V.	C	6	Co. v
Azt	The state of the s	enamentaria innella su qualifornia en qualifornia e	ilet		ale +	Contraction of the Contraction o	>>>

Sinal vowels are lost in Tub, Lui, Cah, Ser, Pap, Azt

Siouan Languages

I. Missouri River (= Missouri = Western = Crow-Hidatsa) Branch
1. Hidatsa
2. Crow

II. Mandan

III. Missouri Valley (= Mississippi = Central) Branch

A Central Missouri Valley (= Mid Central = Chiwere-Winnebago) Fromp

1. Winnebago Ihočágaral

2. Oto Itiwerel (Ioways, Otos, Missouris)

B Southern Missouri Valley (= South Central = Dhégiha i Group

1. Omaha / Jégiha/ (Omahas, Poncas)

2. Osage / Begáha/N/yegáha/ (Osages, Konsas)

3. Quapaw (Akansa) lakázal (?)

C. Northern Missouri Valley (=North Central = Dakota) Group

1. Dukota Idakhótal (Tetons, Yanktons, Santees, Assiniboins)

IV Ohio Valley (= Ohio = Eastern) Branch

1. Ofo

2. Biloxi

3. Tutelo

Phonemic Systems

```
Winnebago (analysis A)
p? t? (x?) k? s? x? P
       čksš×h
                                       0
-b t j g z ž y
  r Lyl
m
Winnebago (alternate analysis)
                         [vowels are the same]
        (it may be that [n] is the allophone of /r/ before Vn)
m
        LyT
W
                  sh šh xh
                                   [p', &', etc]
         Eh
              kh
ph
PP
     t? (8?) k?
                      EP XP
                  sP
                                   [b,d,etc]
              k
                  s š x
```

other clusters:

sk,šk,kč,čk,šč
ps,ks,kš
xn
x?~xk

Oto

Ethern is some evidence for marger of IXI and IXh]

$$E_{5/\theta} \stackrel{*}{s} \times J_{-C,C_{-}}$$

sh $\stackrel{*}{s}h \times h \times L_{5/\theta} \stackrel{*}{s} \times J \binom{V}{\#} - V$

sh
$$[5]\sim [0]$$
 r $[7]\sim [1]$; $[n]\sim V_n$
s $[2]\sim [3];\sim [h]\sim C$ $x^2\sim xk$
s $[2]\sim [3];\sim [h]\sim C$ $kS\sim PS$

Omaha

$$p^{2}$$
 t^{2} t^{2

Osage

$$t = [t][c]$$

$$d = [d][z]$$

$$t^2 = [c^2]$$

$$z = [g]$$

$$u = [u][o]$$

$$s = [s] \sim [\theta]; \sim [h] - C$$

Dakota (Yankton)

sh šh xh
$$Ls$$
 š $\times J$ $\begin{pmatrix} V \\ \# \end{pmatrix} - V$

s š \times Ls š $\times J$ $-c$, c Ls ž ∂J $\begin{pmatrix} V \\ \# \end{pmatrix} - V$

U

u

Hidatsa

ptc k ? x h

w r

Crow

ptck sšxh w r

V

Mandan

[an alternate analysis would write V' as V, and specify clusters with Irl and Iwl as having a predictable epenthetic vowel, always short, and of specifiable quality]

Ofo

Biloxi

Tutelo

$$\begin{cases}
w & \begin{cases} l & k & p & i & u & l & y \\
s & x & h & e & o
\end{cases}$$

$$\begin{cases}
w & \begin{cases} l & k & p & i & u & l & y \\
Em & S & x & h & e & o
\end{cases}$$

proto Siouan phonemes

	t		k	7	j	K	J	4
	5	3	×	7	2	0	Rus :	
W	f-	Y			a		2	
					V			

alternations

S	s~š~x	[active in most languages]
R K	r~y r~y~ 3	Emoribund or vestigial; in some cases only identifiable though comparative
		materials]
	CNC	

canons

roots		affixes
CV	CVh	CV
CCV	CCVh	CCV
CVCV	CVCCV	
CCVCV	CCVCCV	

[. canons]

noun stems

wc...,etc

wa + root

*/w/ */r/ */y/ probably do not intervocalically within roots

most if not all occurrences of initial *wc clusters involve a nominal prefix *w- which is moribund or bestigial in most or all of the languages.

proto Siouan clusters

		Cz-	->									
		W	P	25.5	5	Y	X	- 100 mm	r -wr-	Y	7	h -woh-
C,	W	W.W	WP	WR	WS	wš	wx	wt	Wr	wy	>cw	wh
Consequence of the Consequence o	To the same of the	#	and the second	pk?	ps	pš	рх	DU	i) T	РУ	p?	Ph
	Secure		kp	and the second	ks	k\$	kx	kt	kr	ky	67	m kh
	S	and a second	SP	sk	井	+	100	st	sr	sy	57	
	Š	井	×50	šk	#	Ħ	t	št	3r	*y	37	1
	X	#	XP	xk	井	#	#	xt	Xr	ху	7X	#
	And department of the second	#	tp	tk	1	#	#	of soften	and the second	4	tP	th
	Amo	#	#	#		#	T	#	计	計	#	
	Y	1	#	1	14	#	井	育	#	#	井	-4.h-
	The self	[©] W	(P	< R	S	645	X	st	c for	«Y	#	ch?

clusters where C, is Iwl or lyl occur only initially, with the noted exceptions. I. I marks a morph boundary

code for environments noted in sound correspondence charts

A | B A _ oval vowel

B _nasal vowel

A/B/C A initial

B medial

C Sinal

ANB freely varying or non-contrastive or A in some dialects, B in others

< > presumably

t conditions not yet worked out

g conditions are grammatical

f after front vowels

t before front vowels

vr kefore a rounded vowel

vu before a non-rounded vowel

pS	Wi 1	Ot	Om	Os	Da
*R, *11kh11	Control of the second	k	8	Q	k;č ⁹
*wk, * <k< td=""><td>production of second</td><td>Rh</td><td>Section 2</td><td>k</td><td>en; č</td></k<>	production of second	Rh	Section 2	k	en; č
*Xk	The state of the s	kh		No.	And the second s
*W	wsh*lw;m;h	wlmswt	wlm;w+	w m; wt	Tay y
ww,(w	w;[b]+llm	pin	m	Contract Contractor Contract	w;b+ [m]
*p	ω/ /[b]	p/w	Ь	Ь	
*kp	[kV2w]	kw	P	P	kp
*- wh - (= - hwi)		W	h	Pjpš	Ph
*ph	w/Ip]	W	h	p;pš	Constitution of the second of
* (p, * wp	[p]/	ph/	p/	p/	ph/
*px [hy	pothetical]				
*h-, *wh-	A particular and contact of the cont	h	gillinos estrophilling	h	hjig ‡
He was he was	and the second of the second o	h	h	esection.	
"He received by sounder	Annichiologica del margicio dela margicio del margicio del margicio del margicio del margicio de	and the second	8 m h	8114	y",w"h
* n#		Q	Q	-8	Q
The second secon	A contract of the contract of	rlienj	ð	8	
confined sometimes	The second secon	t	d	d	
*th	[2]/[3]	th	t/th	t/tx~kx	
*t, *wt	Section of the sectio	th	and greater than the state of t		th
*pt	To you			or and a second	Pt
*tp	LXV2W	tw	en e	t	tpnkp
*tk	LegJ	ht	and the second s	t;k [†]	tk
Tapane michappe	The state of the s		the against an armony of the		

pS	w i	Ot	Om	Os	Da
# C p-	[d] In	t IIIn]	nlln;ð‡	nll njðキ	dili
*wr-		The state of the s		dun	bd [mn]
How W France	Idlin	- t ILNO	bð;n	68; 81168	bd II [mn]
* pr	[pV2r] [[p/2n]	SO F	Ьў	Ьб	bd N [mn]
*py		(pr)	<64>	<68>	<>
*4	rlin	rllInj	8;ž n	ð;žlin	žh
* (y, +wy	run	7	× Z	Z	čh
*-114411-			no delegación proprieda por construcción de la cons	3	h
* 5	[2]	7.7	7	anti-ty.	
*ws, * (s	[5]	L5]	5	S. Comments and the second and the s	Ls J
*ps	[s]/ps				ps !
* 185	Rs		S	5	ks
X- X	LĘJ	LžJ	Ž	S	L Š J
*w3, * 3	[8]	[3]	š	Y S	LS J
*pš	Secretaria de la manda de la m			And the second s	PŠ
* les	25	RŠ	Š	* * * * * * * * * * * * * * * * * * *	kš
*×	To read to the second of the s	X	7	8	L&J
wx, <x< td=""><td>([x])</td><td>[x]</td><td>×</td><td>X</td><td>[x]</td></x<>	([x])	[x]	×	X	[x]
* kx	Addition of the property of the Addition of th		con the distribution and the	×	[x]
and the second s	e de la composition della comp				
Table of the state			to a manufacturary in the second seco		
			de l'internation de l'i		
The state of the s	The state of the s		management of the second		

PS		Ot	Om	05	tha 1
*?	(P)	(P)		The second secon	(2)
*77		P?	The state of the s	bS	7
* 4-5	tr; & 9	7	t	Lc?)	£2 c
*167	K.	k?	- Company	The state of the s	12;62
*57	2	Age of the state o	To the state of th	are rich an existing an element	57
* \$?	\$?	\$ 7	\$7		š7
* × ?	1 x?~[xg]	x?~kh	pang.	The state of the s	\ \frac{7}{x}
*kr	[[kVz-] [kVzn]	San	93	9.7	kd [kn]
*ky	[[ERVer]]		93	98	kξ
×51-	[[sV2r]][[sV2n]	sr [sn]	Sn	stlsn	sd I [sn]
x-54		(srll[sn])	<sn></sn>	(st lish)	sč
*šr	[[EšVar]][[šVan]	3r11[\$n]	š n	8t II	šd
*54		くざいりじざいろう	<\$n>	くさせまなり	< š č>
*XY-1	[[LxVzr]] [xVzn]	xrl	×ð	xδ	Xd
*x4		xr	<x 8=""></x>	řx.	xX
*pk [hyp	othetical]		and the state of t		A consideration of the state of
*kt	LR)	ht	The address of the second of t		Rt
			es (summacon)		
			en general de la companya de la comp		Aborator of POPs Surveyance of P
					to continue and co
	Standburger / Cymra A A ag	The second secon	Contract of the Contract of th		Complete NAME (Control of Control
	productive control of the control of	en e			a egypty and an entire processor and a second a second and a second and a second and a second and a second an

5	ωί	Ot	Om	05	Pa II
				i verilen er	
*sp	The second secon	Sw		Sp	sp
*\$ 5	entrane and the control of the contr	more automore on the control of the	*p	ŠP	šp
*xp	[xVzw]	KW	XP	хР	хр
*5		Popular control page and visit			5:
* š t	The second of th	\$t	Supplies to the supplies to th	8-6	
*xt	en ingelijke kalender	xt	xt	Xt	+
*5k	59]	SK	sk	58	5k
* * *	1 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5 /2	šk	Z Z	A S S S S S S S S S S S S S S S S S S S
* i-	e. Grand	the state of the s	to dispersion of the second seconds.	+ n	
* C and	e e	C	C.	e	
* A -	C.	a	and the second s	A.	The second secon
* 0	0	O	V.	W.	
* U man	- Commence of the Commence of	U.	e and	and freeze	
* Pa	[7] ₀	[7]0	LA.		[7]0
* 1	6		and the second s		-
* &	9	E-	2	To grand	2
* ½	1	Ų.	&	123	12
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*6#	eja	€ .	e;a	e;a	eja l
* a #	ejss	e;a t	α	a	
*0#	0;飞	0	V	V.	O O
* 4		LA.		and the second s	
* A	ena	ena	ena	ena	ena

pS	Hi	Cr	in Ma	OS-	B;	, Tu .:
* * khi					The state of the s	
xk, **k, *k?,	R	N. C	A Company	k	R	enterent interest
*wk	wyk	くいひとう	pk 1	ak.		
* w	W	W	w/[m];8	a a	Q	T.Ma.
*rw	C.	w		bllam	w; & # 11(a)m	wlltaj
*ww	law; hw F	aw; nwt	WILM	abamam	11(a)m	![(a)m]
76 W/V		W			32	wVh
*- I whill te-his			D and the second	120 M	II m	
*ph			P	Approximate the second	pWh	p(V)h
P,'p,*p?	To the same of the	A CONTRACTOR OF THE CONTRACTOR	2	P	P/PNW	P
· Xwp	ар	G D	P	ap	P	P
· *4, *(8	rj 8 *	ります	r II En J	Continue Co.	У	Y
*wy	wVr	wVr	[wvr][[mVn]	ij;ajt	ay	(wV)gll[m]Vg
***,*(r	トラスキ	r350辛	in the second	Company of the Compan		The second secon
*Wrom	WVr	wVr	[wvr] [mvn]	ad; id han	ad; 10 lan	y II [mVn]
A com (1) for ano	F W	rllw	The State of the S		"d n	the state of the s
*PY and				p(V)d		
House DY min	wVr		MEmVn]		parents have been a second or second	
* Py [hy	pothetical]					
*-llyhll-		-18				
*t, *'t, *t?	t	55 š	t		t	
*wt			Pt		(i)t	wyt
· *pt	wVt	wV5jwV\$	pt	at	(i)t	(wV)t
And Antividual Control (Antividual Control (An						

pS	and property of the second sec	Cr	Ma	OS	Si	The state of the s
						And a state of the
*h-		and the second	h	h	hんな	checking and the control of the cont
the Mass	h, at	R	All productions in a graph of the control of the co	Success to special resource special property of the special sp	W/w/y/Q. +	and the second s
¥ - h	3	R	epidentinis and appropriate	3	Q	D
*?	The state of the s	(?)	?	(7)	(7)	(7)
*5, * (5	C	t;c-i	Segmental to a management of the segment of the seg	(a)f	5	(a)s
*57		the day of the second	šk?	Statement of the statem	The Control of the Co	indimento in anti- pri calmin reducione Private (1949)
+ws [hy	pothetical	Manager of contract and progress of the contract and contract of the contract	Self Self-Self-Self-Self-Self-Self-Self-Self-			Select Park Replication Committee and Selection Committee Committe
\$,(\$,*\$?	3	Notes of the second		×.	7	
*wx	wVš	wVš	2. S	αč		and a supplemental designation of the supplemental designation
X,(X	X	X		5	X	Address of representation of the second of t
*wx	Chypothe		And Antonio Control of the Antonio Control of			Significance and a characteristic control of the characteristic co
* Son A	Lhypothe	tical]	Conjunction and the Conjunction of the Conjunction		po Pl Service de la companya de l	gravers years subject to the control of the control
*kp	[no exx]		School - Annual Communication		e distribution of the second o	The property of the control of the c
*kt	to the		osoprano-dilago garbiar de la companya de la compan	k(V)t	k(V)t	k(V)t
×tp	/hp	/hp	/pt		to the application of the second of the seco	de de la constitución de la cons
*tk /	tVk/(h)k	/(h)k	and the second	in monormy to the contract of	t(V)k	gje overvje sedije jede je Preje Velik, Ante i mejede
*x?	x/hk	x/hk	k?		X	And the second s
			**************************************		to provide according	
many green the discontinues				Angelija in Literary system of the control of the c	e en	The contract
				As the design of the second of	decrease and the second	resident (File increases
				en e en	The state of the s	And the second s
		the second registration of the second registrati		the company of the co		The state of the s
and the second s			1	To the state of th		and the second s

pS	e page provide de la page provide de la page provide de la page provide de la page page page page page page page pag	Cy	M.A.	05	Bi	Tu
*kr	kVr	kVr;cVr	[kV+]		k(V)n	
*ky [no *sr	exx] cVr	tVrjcVr	EšVr]II[šVn]	50	S	[sVn]
*sy [no	exxJ		Commence for improved money			3
*\$r *\$y	\$V r		[sVr] [sVr]		čd	
*Xr *Xu	XV 3	хVr	The state of the s	s(V)	ХУ	
*5p		/ v .	to depart the part of the part	5p	sw~sp	Sp
***p	šV _p /šp xV _p	/šp xVp	The second secon	ζp	ХP	
*st	A A A A A A A A A A A A A A A A A A A	182	and the second s		st	55
*Xt		c(V)k	xt	and promote properties and an extension of the control of the cont		
*šk	ck šk	40 Habita and an ann ann ann ann ann ann ann ann	3 R	čk;kč [†]	sk čk;kč†	sk? c(V)k
*xk *ps [no		xVc xVk/xc	XR	sk	xk;k?	
2	exx]				education and the second secon	The section of the se
*ks	hkVc			k(V)5,5	ks	k (V)s
* 128 * 128	The design and the control of the community of the commun	R	ks kx	k(V) & ?	k(v) =	Professional Control of Control o

pS	A rest	(m	Ma	OF	B;	Tu
if i am		لات ه	p. The state of th	A second	3	·
*6	e	e	e	C.	e	
* 4	<i>U</i> ~	a	a	O.	CL	C.A.
14 Chaires	Озиа	o;ua	O	B	С	0
* U	U.	И	u	Service Control of the Control of th	ч	
×Pu	Pu	Pu	21	(P)M	(?)0;(?)4	(7)0
K L		· ·		lan .	į	and the second
* a.	A	A.	2	ę	ą.	2
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* (#		C. C.	e; i; B F		l.	seed.
re#	C.	aje mini	Ø;a	rje.	cje.	ije
ra#	a	a;e	a jo	A.	a	0
*o#		The state of the s				
*44	The second secon	u(a); e	Z.	ujo ‡	0; u +	0
*IAI	ena	ena	e	e	R	ena
						The American Control of the Control

Chart for Plotting Siouan Isoglosses

Cr

Accordance of the second

Ma

14);

Ot

Om

Os-Ka Gu

As Te-Ya-Sa

Of Tu

13:

Philological Methods

Cacaopera - Matagalpa

phonemes

marginal sounds.

é	in	one	In	iterje	ction
8		loa			
农	in	one	or	two	Loans

phonetics

```
n# nt~n.~n

p# pm~p

th th ~t

$# $! ~!

b~ B or else: /b/ may be spirantized after V

ŭ stral u\(\tilde{\chi}\) ((\tau.) / o (\that.)

medial u

final i\(\tilde{\chi}\) e

medial i

a y-,-y \(\tau.\) \(\tau.\)
```

p (t) (k) s (m) n e may be slightly lengthened in V-V

#p,t | W -V are lenis, and are frequently transcribed by S as b, d; but by noone else.

Lehmann Frequently hears stressed vervels and pretence vorvels in open syllables as long. None of the other sources marks length in any way. Since many of the forms are marked by L both with and without length, it is assumed to be non-distinctive.

		Carried Control	S	and the same of th	N	V
#p		P	P	P		
#p	www.V	P		þ		
#+	control V	t	t (d)	t		
非七	400000	t	d	t		
带尺	assexts V	c,k	c, gu, R	R		
茶b	emos V	Ь	5	5		
#4		d	d(nd)	d		
S	V-V	As	\$ ss	爱 S		
S	VV	5,55	S	S		
P	√_∀ ∀_√	PP	P	P	17,71	P
P	VV	P	P	P		
t	√_v	t	t	÷		
t	V_V	t	t (d)	t		
k	VV	C	c,qu	R		
Ь	V_V	b,V	b,v	6		Ь
b	V_V	*	Ь	Ь		
d	V_V	d		0		
m	V_V	W	m	m		m
n	V_V	n	n,nn	n	n	
n	V_V	n	n	n		
9	V.V	6	99,9	e		
	V	6	6	6	e	

				S	g g g g d-municip		
	p#	V mana		pm	pm	þ	
	七井	V	t	t, tn, th	t",t		
	k#	V	C	C	k		
	n#	V_	h	ท,ทก,ที	n,nt	n	n
	n#	V-	n	n	n,nt		
	# 5	ins V		r,rr	~,š		
		V.V	pro	r,rr	۲ř		
	Š	V_V	rr	7-	řř, ~, τr,	r(r)	
	* #	Ý_	Γ,5	rx,rrx	47,7,5n		
	#yá-		ge, ya	ye,ya	ye,ya	(as	
	-uá-		0	6	6,0·wá		9,
	-1á-		la	ié	i·é	la	lá
	- ai-		ay,ai	ai	ai	ai,éi	áı
	-au-		áu	áu	á·u,áu		
	····· Ui~			uy	u·i		
	····.·································		ihú,eo		Cu, in, in)	
	yáu		yáu	yáu	yéo	yau	yau
extra	個条	V_V	tr	r	77		
extra	6	Ÿ_Ÿ	Ь	Ь	Ь		
marginal	# 5-		ch	ch	¥,č		
n	- č		ch	ch	č		
· ·	k			R	K		
de de	é		é	é	é		
							15/1-15/1

N

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×	√_ ĕ	j	j	×		
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# ~		i	i	· ·		
max C max		i	i	i	i	i
一(井		i	i	i		
- (#		Lje	i,e	LJE	e	6
# ú-		u	u	u		
# ~~		u	u	и		
-ŭ-		и,о	и,0	4,0	0	0
一山井		u	и	и		
一以甘		٥, ٨	u,o	и,о	0	0
-úk#		LC	ис	uk,ok		
#	accipina V	h,Q	R	Q		

nt

dr

M 5 L

SW			sw,zw	
-16-	16		16, W	
- CR-		tk	tk,tk	
- nd.	nd		nd	
emos to brens	db	tp	tb	tb
- kt-		t	kt	ct
on SN -	5h	sn	5 N	
K	Ic, IR	(c	Ik	
-5m -	5M	5M	5m	
-nk-	nk		p R	
-5k-	sk		sk	
m nt	nt	nt		nt
#dr-				dr
-hy-				ji

probable phonemes

p t ¢ č k ?
š h

m n

w

i n u V e a o

M Mendoza (by Sapper) ca 1920

5 Sapper ca 1890

K Krause ca 1910

R Rieke ca 1900

Johnston ca 1880

		Tapac	chulteco	8		·
Contract of the Contract of th		M	S	K	R	or the second
k	mile	qu(k)	k/qu(ku)	(qu)	(cu)	3u
K	-a/o/u/A	glc/k(c)) <td>cla</td> <td>c(g)</td> <td>clg</td>	cla	c(g)	clg
k	and the second		c/k	the state of the s		V
MI	MAA					
STATE OF THE PARTY		j(h)	(i)h	3	1/5)	j(h)
	V-C		j	J	(i)	W.
h	V-C	(x,x)		Q		R
-		m/1 (.)	,	_/I / C)	. /i	11
P		p/b (v)		p/b(pf)		p/b
七		t/d		t		t
m		m	m	m	m	m
n	(non-Sinal)	n	n	n	n	η
i		Č	i	i	i	ť
e		e	e(è,ö)	e	e	e
a		a	a(a')	a	a	a
0		0	o(u)	0	0	0(u)
u		u	u(u')	u	u(o)	u(o)
n	Report Edition	ng/n (m)	ng/n	n	n(m)	n (m,nt)

unmarked stress is assumed to follow the rules of spanish orthography

#-,
$$V - V$$
 \\
- $C_1 - \#$ \\
\text{tz}(ts) tz \ z(s) ts \\
\text{x} \ - C_2 - \# \\
\text{ts} \\
\text{ch} \ ch \ ch \ - \((tx, ch)) \\
\text{ch} \ \text{x} \ \text{x}(s) \ \text{x} \ \text{x} \\
\text{ch} \ ch \ ch \ - \((tx, ch)) \\
\text{ch} \ \text{x} \ \text{x}(s) \ \text{x} \ \text{x} \\
\text{ch} \ \text{ch} \ - \((tx, ch)) \\
\text{y} \ \\
\text{y} \

Linguistics 290b, Fall 1965
Languages of Middle America
T. Kaufman

Languages and Families of Middle America (I-XXIII)

- [A. macro-Hokan superstock]
- I. Seri [isolate](Driver: Casis; Kroeber: Southwest)
- II. Tlapanecan family 8c.
 - a. Tlapaneco
 - b. Subtiaba [intrusive outlier] (Driver: Circum-Carribean)
- III, Tequistlatec[an] (Coastal, Highland var's.)
- IV. Jicaque [isolate](Driver: Circum-Carribean)
- [B, macro-Aztec-Tanoan superstock]
- V. Uto-Aztecan family 47-50c. (in part: the traditional Sonoran and Aztecan 'branches')
 - E. Piman group 6-7c. (Driver: Oasis; Kroeber: Southwest)
 - 1. (a) Papago (Pima and Papago var's.), Lower Pima;
 (b) Tepecano [intrusion]
 - 2. (a) Northern Tepehuán; (b) Southern Tepehuán [intrusions]
 - F. Yaquian group 21c. (Driver: Oasis)
 - 1. Tarahumara-Guarijfo 7c.
 - a. Tarahumara [intrusion]
 - b. Guarijio [Eng. Varchio]
 - 2. Cáhita-Ópata 11c.
 - a. Cáhita (Yaqui, Mayo var's.)
 - b. Opata (Eudeve, Jova var's.)
 - G. Coran group llc.
 - 1. Cora
 - 2. Huichol
 - H. Aztecan group [intrusions] 13c.
 - 1. Azteco 12c. (sev. dial's., e.g. Isthmus, Highland, Puebla, Michoacan)
 - 2. Pochuteco
- VI. Cuitlatec [isolate]

[C. macro-Penutian superstock]

VII. Tarasco [Eng. Tarascan][isolate]

[D. macro-Mayan superstock]

VIII. Totonacan family 26c.

A. Totonaco [Eng. Totonac] (sev. dial's., e.g. Highland, Northern)

B. Tepehua

IX. Mixe-Zoque family 35c.

A. Zoque group

1. Zoque (Chiapas and Oaxaca var's.)

2. Sierra Popoluca

3. Texistepec Popoluca

B. Mixe group

1. Mixe (Western and Eastern var's.)

2. Sayula Popoluca

3. Oluta Popoluca

4. Tapachulteco

X. Mayan family 36-39c.

A. Huastecan group [outliers] 10c,

1. Huasteco (Potosino and Veracruzano var's.)

2. Chicomucelteco

B. Yucatecan group 6c.

a. Yucateco (Yucateco and Itzá var's.)

b. Lacandón

c. Mopán

C. Cholan group 13c.

1. Chontal-Chol 7c.

a. Chontal

b. Chol

2. Chortí

- D. Tzeltalan group 18c.(%)
 - 1. Tzotzil-Tzeltal 7c.
 - a. Tzotzil
 - b. Tzeltal
 - 2. Tojolabal
- E. Kanjobalan group 15c.
 - 1. Chuj
 - 2. Kanjobal-Jacalteco
 - a. Kanjobal (Kanjobal and Solomeco var's.)
 - b. Jacalteco
 - 3. Motocintleco
- F. Mamean group 21c.(:)
 - 1. Ixil
 - 2. Aguacateco-Mam 16c.(%)
 - a. Aguacateco
 - b. Mam
- G. Quichéan group 8c.
 - a. Uspanteco
 - b. Quiché
 - c. Achf (Rabinal and Cubulco var's.)
 - d. Cakchiquel (Cakchiquel and Tzutujil var's.)
- H. Kekchian group 19c.
 - 1. Pocomam-Pocomehí 11c.
 - a. Pocomam
 - b. Pocomehi
 - 2. Kekchi
- [E. macro-Penutian, macro-Mayan, or macro-Chibchan superstock]
- XI. Xincan family 17c.
 - l. Ohiquimulilla
 - 2. Yupiltepec

(XII-XV; Driver; Circum-Carribean)

KII. Lencan family 30c.

A. Lenca

B. Chilanga

[F. macro-Chibchan superstock]

XIII. Paya 10c. [isolate]

XIV. Misquito-Sumu family 43c. (+ Mat)

1. Misquito

2. Sumu[an] lic. (Sumu, Ulua and Taguasca var's.)

XV. Matagalpa 10c.

a. Matagalpa variety (A)

b. CaCaopera variety (B)

[G. macro-Oto-Mangue superstock]

KVI. Otomi-Pame family 60c. (?)

A. Pamean group 36c.

1. Chichimeco

2. North Pame; South Pame 18-20c.

3. Matlatzinca; Ocuilteco (C)

B. Otomían group 16c.

1. Otomí 9c. (sev. dial's., e.g. Eastern, Mezquital, St. of México)

2. Mazahua

XVII. Popolocan family 24-25c.

A. Mazateco 10c. (sev. dial's., e.g. Highland, Lowland)

B. Chocho-Ixeateco group 13c.

1. Chocho

2. Popoloca [Eng. Popoloc]

3. Ixcateco

KVIII. Mixtecan family 43c; 45-49c. (+ Amz)

A. Trique

B. Cuicateco-Mixteeo 25c.

1. Cuicateco

2. Mixteco 15c. (sev. dial's., e.g. Highland, Lowland, Eastern, Gueriero)

XIX. Amuzgo [isolate]

XX. Chinantec[an] 15c. (Lalana, Palantla, Ojitlan, Quiotepec, Usila var's.)

XXI. Zapotecan family 24c.

A. Zapoteco 14c. (sev. dial's., e.g. Valley, Isthmus, Highland)

B. Chatino

XXII. Huave [isolate]

XXIII. Manguean family [intrusions] 13c.

a. Chiapaneco

b. Mangue [outlier] (Driver: Circum-Carribean)

Notess

var. variety

c. centuries of divergence, from Swadesh 1956-1962

+ including

(:) I think the figure is excessive

sev. several

dial. dialect

e.g. for example

Subdivisions marked a, b imply rather weak differentiation; those marked 1, 2 imply rather strong differentiation; those marked A, B denote the major branches of a family.

Language names ending in -eco are normally Anglicized to -ec.

-[an] means that it is unclear whether the name refers to a strongly diversified language or to a weakly diversified family.

An Oto-Manguean stock or superstock including XVI-XXII is generally accepted, but the subclassification of XVII-XXII is in dispute. This is the only superstock which has been validated by published phonological reconstruction.

There is general agreement on the Hokan affinities of I-III, and on a special relationship of I to the Yuman family. IV is grouped with Hokan by Greenberg and Swadesh.

A macro-Mayan stock or superstock including VIII-X seems reasonable to Kaufman, McQuown, and Swadesh among others, but is by no means generally accepted.

A Misumalpan stock including XIV and XV has been proposed, and seems reasonable to Mason, Swadesh, and Kaufman, apparently also McQuown.

Those who have worked most thoroughly on languages of South America lump XIII-XV with the Chibchan family to form a macro-Chibchan superstock; cf. Mason, Greenberg, Swadesh.

Many see a special relationship between XI-XII; Mason and Swadesh link them with 'macro-Mayan' or 'macro-Penutian' (which are not necessarily conceived as mutually exclusive); Greenberg links Lencan to 'macro-Chibchan' and says nothing of Kincan.

According to Driver's analysis of North America into culture areas, I and V EmF belong to the Oasis area; Kroeber's analysis places I and V E in his Southwest area. Driver and the authors of the Hand-book of South American Indians assign XII-XV to the Circum-Carribean area, but Kroeber to Middle America. The remainder of the languages are assigned by both Kroeber and Driver to Middle America (Driver Meson-America).

I have defined Middle America in such a way as to avoid breaking up the territorial continuity of Uto-Aztecan. There is general agreement that the area included shares more cultural features with Middle America in its minimal extent than with any other adjacent area.

Kroeber's Middle America extends somewhat past XIV and XV into the area of the Chibchan family, but since it would be impossible to include the whole of the geographically continuous part of the Chibchan family in anybody's definition of Middle America, I have drawn the line at the Eastern limit of XIV and XV. In this way, almost all of the identified outliers of Middle American languages are also included.

Whatever is underlined in the preceding listing is the form entered on my map of Middle American languages.

An Alphabetical Listing of Middle American Language and Tribal Names (and Place Names where they Enter into Language Names) with Specification of Anglicizing Pronunciation and Classification Coding. [Unclassified extinct languages not listed]

+ = reported extinct during or before the 19th c.

Rules for interpreting phonemic symbols:

1. vowel triangle:

2. V = V or a

æ = æ or a

æ = æ inalterable

e _r = e or s

o _r = o or o

t _a = t or d

t = t inalterable

x = x or h

e# = e or i

n _velar = n or n

Achí /ačí/ XGc

Aguacatec /awaketek/ XF2a

Amuzgo /amuzgo/ XIX

Aztec / éztek/ VHl

Aztecan /mztáken/ VH

B : see V

← Basiroa = Lower Fima VE1(a)

C-; see S-

Cacaopera /kakaopera/ XVb

Cáhita /káitə/ VF2a

Cekchiquel /kækčĭk£1/ XGd

Chanabal, Chaneabal = Tojolabal XD2

Chatino /čætíno/ XXIB

Chiapanec /čiápensk/ XXIIIa

Chiapas /čiápas/

Chichimec /číčimek/ XVIAL

Chicomuceltec /čikomuseltek/ XA2

Chilanga /čľlánge/ XIIB

Chimalapa = Zoque IXA1

Chinantec /čínentsk/ XX

+Chinipa = Tarahumara VFla

Chiquimulilla /čikŤműlíə/ XII

Chocho /č6čo/ XVIIB1

Puebla Chocho = Popoloc XVIIIB2

Chol /čől/ XClb

Chontal /contal/ XCla

Oaxaca Chontal = Tequistlatec[an] III

Tabasco Chontal = Chontal XCla

+Chorotega /corotége/ , Choluteca = Mangue XXIIIb

Chortí, +Choltí XC2

Chuchón = Chocho XVIIBI.

Chuj /čúx/ XEI

+Conicari = Cáhita VF2a

Cora /kôre/ VGl

Cubulco = Achi XGc

Cuicatec /kwfketsk/ XVIIIB1

Cuitlatec /kwitletck/ VI

+Diri(a) = Mangue XXIIIb

Eudeve = Ópata VF2b

Gu-; see Hu-

Guarijío /warľxío/ VFlb

+Guasave = Cáhita Fl2a

+Guazápar = Guarijío VFlb

Guerrero /gěréro/

H-: see J-

Heve = Eudeve VF2b

Hu-; see Gu-

Huastec /wástek/ XA1

Huastecan /wastsken/ XA

Huave /wäve/ XXII

Huichol /wic61/ VG2

-1; 800 -0

Itzá = Yucatec XBa

Ixcatec /íšketsk/~/isketsk/ XVIIB3

Ixil /išíl/ XFl

J-; see H-, S-, and X-

Jacaltec /xákăltek/ XE2b

Jicaque /xikáke/ IV

Jonaz = Chichimec XVIA1

Jova = Ópata VF2b

Kanjobal /kanxobál/ XE2a

Kekchí /kekčí/ XH2

L; see R

Lacandón /lækændón/ XBb

Lenca /lénke/ XII(A)

Macoyahui = Cáhita VF2a

Mam /mam/ XF2b

Mamean /mamian/ XF

+Mangue /mange/ XXIIIb

Maribi(o) = Subtiaba IIb

Matagalpa /mætəgélpə/ XV(a)

Matlame = Ocuiltec XVIA3

Matla(1)tzinca /mætletsínke/ XVIA3

Maya /máyə/ = Yucatec XBa

Mayan /mayən/ X

Mayo /máyo/ = Cáhita VF2a

Mazahua /masawə/ XVIB2

Mazatec /mésətek/ XVIIA

Meco = Chichimec XVIAL

Mexicano = Aztec VH1

Michoacán /mIčuekán/

Michoacano = Tarascan VII

Mísquito /mískIto/ XIVI

Misumalpan = Misquito-Sumu (XIV) + Matagalpa (XV)

Mixe /mixe/ IXB(1)

Mixe-Zoque /mixe soke/ IX

Mixtec /mistsk/~/mistsk/ XVIIIB2

Mixtecan /mlštěken/~/mistěken/ XVIII

Mopán /mopén/ XBc

Motocintlec /motosintlek/, Mototzintlec XE3

Mosquito = Misquito XIV1

Nagranda = Subtiaba IIb

Nahua /náwa/, Náhuat(1) /náwat(1)/ = Aztec VH1

Nayarit /nayarit/

Nayarit(a) = Cora VG1

Nevome = Lower Pima VEl(a)

+Nicarao, Niquira = Aztec VHl

+Nicoya = Mangue XXIIIb

Nío = Cáhita VF2a

-0; see -u

Oaxaca /waxake/

+Ocoroni = Cáhita VF2a

Ocuiltec /okwiltek/ XVIA3

Oluta /olúte/ IXB3

ôpata /ôpate/ VF2b

+Orotiña = Mangue XXIIIb

Otomí /otomí/ XVII

Pame /pame/ XVIA2

Papago /pépago/ VEl(a)

Paya /páyə/ XIII

Petén = Yucatec XBa

Pima /pime/ = Papago VEl(a)

Pima Bajo = Lower Pima VEI(a)

Lower Pima VEl(a)

Pipil = Aztec VHl /pipil/

Pirinda = Matlatzinca XVIA3

Pochutec /počútsk/ VH2

Pocomam /pokomám/ XHla

Pocomchí /pokomčí/ XHlb

Popoloc /pópŏlok/ XVIIB2

Popolocan /popoloken/ XVII

Popoluca /popolúke/ IX: A2-3, B2-3

Puebla /pwéble/

Qu-; see K-

Quiché /kičé/ KGb

R : see L

Rabinal = Achi XGc

Rarámuri = Tarahumara VFla

S-; see C-

Sayula /sayûle/ IXB2

Seri /séri/ I

Sierra /siére/

+Sinaloa /sinəlőə/ = Cáhita VF2a

Solomec /sólomek/ = Kanjobal XE2a

Sonora /senore/

Subinhá = Tojolabal XD2

Subtiaba /sUbtiabe/ IIa

Sumu /súmu/ XIV2

Supanecan = Tlapanecan II

Taguasca, Tahuajca = Sumu XIV2

Tapachultec /tapačúltek/ IXB4

Tarahumara /taraumara/ VFla

Tarascan /təréskən/ VII

Teco = Cuitlateco VI

Tegüima = Ópata VF2b

+Tehueco = Cáhita VF2a

+Temori = Tarahumara VFla

+Tepahue = Cáhita VF2a

Tepecano /tspěkáno/ VEL(b)

Tepehua /těpéwe/ VIIIB

Tepehuán /tspěwán/ VE2

Tequistlatec /těkís(t)lətek/ III

Tequistlatecan /těkis(t)letéken/ III

Texistepec /tsksistšpsk/ IXA3

Tlapanec /tlæpensk/ IIa

Tlapanecan /tlæpenéken/ II

Tojolabal /toxolabal/ XD2

Totonac /tôtenæk/ VIIIA

Trique /trike/ XVIIIA

Tz-; see Z-

Tzeltal /tssltál/, Tzental XDlb

Tzotzil /tsotsil/ XDla

Tzutujil /tsutsŭxfl/ = Cakchiquel XGd

Ulua /6lue/ = Sumu XIV2

Uspantec /úspantsk/ XGa

Uto-Aztecan /yůto zztěken/ V

Varobio = Guarijio VFlb

X-; see J-, S-

Xinca /šínke/ XI

Yaqui /yéki/ = Cáhita VF2a

Yopi, Yope = Tlapanec IIa

Yucatec /yúketsk/ XBa

Yupiltepec /yupiltepsk/ XI2

Z-; see Tz-

Zapotec /zépetsk/ XXIB

Zapotecan /zæpotéken/ XXI

+Zoe = Cáhita VF2a

Zoque /s6ke/ IXA(1)

+Zuaque = Cáhita VF2a

Extinct forms of Middle American speech generally classified as Uto-Aztecan, but not reliably placed in any specific subgroup

- + Acaxée
- + Cazcán
- + Huite
- + Mogorito
- + Kixime